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**From:** Solomon, Gina@EPA [Gina.Solomon@calepa.ca.gov]  
**Sent:** 2/2/2016 10:35:16 PM  
**To:** McQueen, Jacqueline [McQueen.Jacqueline@epa.gov]  
**Subject:** RE: Bulk tire crumb samples and facility tour

Also, it looks like it's going to be 80 degrees and sunny next Tuesday in  so people shouldn't dress for snow!

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**From:** McQueen, Jacqueline [mailto:McQueen.Jacqueline@epa.gov]  
**Sent:** Tuesday, February 02, 2016 10:24 AM  
**To:** Solomon, Gina@EPA  
**Subject:** RE: Bulk tire crumb samples and facility tour

Thanks, that makes sense. THANK YOU.

Jackie

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**From:** Solomon, Gina@EPA [mailto:Gina.Solomon@calepa.ca.gov]  
**Sent:** Tuesday, February 02, 2016 12:53 PM  
**To:** McQueen, Jacqueline <McQueen.Jacqueline@epa.gov>  
**Subject:** RE: Bulk tire crumb samples and facility tour

Hi Jackie,

We're double-checking with the facilities, but our understanding is that people should wear solid, closed-toe shoes (they don't need to be steel toed), and that any additional PPE will be provided.

I'll let you know asap if that changes.

-Gina

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**From:** McQueen, Jacqueline [mailto:McQueen.Jacqueline@epa.gov]  
**Sent:** Tuesday, February 02, 2016 7:07 AM  
**To:** Solomon, Gina@EPA  
**Subject:** RE: Bulk tire crumb samples and facility tour

Hi Gina,

We will share the cell phone numbers with you soon, but in the meantime, here is a question that was raised: do we need to bring our own personal protective equipment, or will the facility provide anything that is needed? It seems logical that the companies would provide any equipment, if necessary, but we said we would check with you.

Thanks for all of your hard work in organizing this, and for graciously including EPA and CDC.

Jackie

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**From:** Solomon, Gina@EPA [mailto:Gina.Solomon@calepa.ca.gov]  
**Sent:** Monday, February 01, 2016 3:07 PM  
**To:** Hauchman, Fred <hauchman.fred@epa.gov>; McQueen, Jacqueline <McQueen.Jacqueline@epa.gov>; Guiseppi-Elie, Annette <Guiseppi-Elie.Annette@epa.gov>  
**Cc:** Deener, Kathleen <Deener.Kathleen@epa.gov>; Wong, Patty@OEHA <Patty.Wong@oehha.ca.gov>; robert.carlson@calrecycle.ca.gov; Deitchman, Scott (CDC/ONDIEH/NCEH) <sed2@cdc.gov>; Thomas, Kent <thomas.kent@epa.gov>  
**Subject:** RE: Bulk tire crumb samples and facility tour

Annette mentioned that she, you, and Kent may be attending, but we don't need the names, and there's no registration since it's a public meeting and the room is quite large.

It would be great to have a list of names and cell phone numbers for people who will be taking the tour (or at least cell numbers for one person in each vehicle).

Thanks!

-Gina

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**From:** Hauchman, Fred [<mailto:hauchman.fred@epa.gov>]

**Sent:** Monday, February 01, 2016 11:59 AM

**To:** Solomon, Gina@EPA; McQueen, Jacqueline; Guiseppi-Elie, Annette

**Cc:** Deener, Kathleen; Wong, Patty@OEHHA; [robert.carlson@calrecycle.ca.gov](mailto:robert.carlson@calrecycle.ca.gov); Deitchman, Scott (CDC/ONDIEH/NCEH); Thomas, Kent

**Subject:** RE: Bulk tire crumb samples and facility tour

Sounds good, Gina. Thanks for coordinating all of this.

Do you need the names of those of us who will be attending the expert panel meeting on the 8<sup>th</sup>?

Best,

Fred

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**From:** Solomon, Gina@EPA [<mailto:Gina.Solomon@calepa.ca.gov>]

**Sent:** Monday, February 01, 2016 2:48 PM

**To:** McQueen, Jacqueline <[McQueen.Jacqueline@epa.gov](mailto:McQueen.Jacqueline@epa.gov)>; Guiseppi-Elie, Annette <[Guiseppi-Elie.Annette@epa.gov](mailto:Guiseppi-Elie.Annette@epa.gov)>

**Cc:** Deener, Kathleen <[Deener.Kathleen@epa.gov](mailto:Deener.Kathleen@epa.gov)>; Hauchman, Fred <[hauchman.fred@epa.gov](mailto:hauchman.fred@epa.gov)>; Wong, Patty@OEHHA <[Patty.Wong@oehha.ca.gov](mailto:Patty.Wong@oehha.ca.gov)>; [robert.carlson@calrecycle.ca.gov](mailto:robert.carlson@calrecycle.ca.gov)

**Subject:** RE: Bulk tire crumb samples and facility tour

Hi all,

Ex. 3 [CERCLA section 104(e)(7)(42 USC 9604(e)(7))]

Ex. 3 [CERCLA section 104(e)(7)(42 USC 9604(e)(7))]

Apologies, but it does appear to be the only reasonable meeting place in the area.

Perhaps we could aim to meet there at 9:30 for a brief round of introductions, prior to going to the site?

I don't think that those flying down from Sacramento can hope to get there before 9:30, but it seems like it would be good for everyone to have a chance to briefly meet before we walk into the first tour.

Does this sound ok?

-Gina

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**From:** McQueen, Jacqueline [<mailto:McQueen.Jacqueline@epa.gov>]  
**Sent:** Tuesday, January 26, 2016 8:09 AM  
**To:** Guiseppi-Elie, Annette; Solomon, Gina@EPA  
**Cc:** Deener, Kathleen; Hauchman, Fred  
**Subject:** Re: Bulk tire crumb samples and facility tour

I think we will have 8 participants including at least 3 from our labs. We are just trying to finalize who from our program offices will attend.

Jackie

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**From:** Guiseppi-Elie, Annette  
**Sent:** Tuesday, January 26, 2016 8:11 AM  
**To:** Solomon, Gina@EPA  
**Cc:** Deener, Kathleen; Hauchman, Fred; McQueen, Jacqueline  
**Subject:** RE: Bulk tire crumb samples and facility tour

Gina,

Thanks for the information on all issues.

We will try to get you some decisions on participating on these shortly.

Best, Annette.

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**From:** McQueen, Jacqueline  
**Sent:** Monday, January 25, 2016 5:25 PM  
**To:** Solomon, Gina@EPA <[Gina.Solomon@calepa.ca.gov](mailto:Gina.Solomon@calepa.ca.gov)>  
**Cc:** Deener, Kathleen <[Deener.Kathleen@epa.gov](mailto:Deener.Kathleen@epa.gov)>; Guiseppi-Elie, Annette <[Guiseppi-Elie.Annette@epa.gov](mailto:Guiseppi-Elie.Annette@epa.gov)>; Hauchman, Fred <[hauchman.fred@epa.gov](mailto:hauchman.fred@epa.gov)>  
**Subject:** Re: Bulk tire crumb samples and facility tour

Ok, thanks.

Jackie

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**From:** Solomon, Gina@EPA <[Gina.Solomon@calepa.ca.gov](mailto:Gina.Solomon@calepa.ca.gov)>  
**Sent:** Monday, January 25, 2016 5:23 PM  
**To:** McQueen, Jacqueline  
**Cc:** Deener, Kathleen; Guiseppi-Elie, Annette; Hauchman, Fred  
**Subject:** RE: Bulk tire crumb samples and facility tour

One other potentially relevant thing:

The first meeting of our Expert Panel on artificial turf is the day before – Monday February 8<sup>th</sup>, in Sacramento from 10:00-5:00.

More information is here: <http://oehha.ca.gov/risk/SyntheticTurfStudies/SynthTurfFeb2016Meeting.html>

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Risk Assessment  
OEHHA  
Synthetic Turf  
Study: Synthetic  
Turf Scientific  
Advisory Panel  
Meeting.  
February 8, 2016  
[01/12/2016]  
The first  
Synthetic Turf  
Scientific ...

If anyone from the EPA team is interested in attending this public meeting, and hearing the deliberations of the scientific panel, you would be welcome.

A group of us will be flying from Sacramento to [REDACTED] on Tuesday morning (on Southwest), so we could travel down together.

-Gina

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**From:** McQueen, Jacqueline [mailto:McQueen.Jacqueline@epa.gov]

**Sent:** Friday, January 22, 2016 4:07 AM

**To:** Solomon, Gina@EPA

**Cc:** Deener, Kathleen; Guiseppi-Elie, Annette; Hauchman, Fred

**Subject:** Re: Bulk tire crumb samples and facility tour

Thanks, Gina. Yes, I will now be able to get a roster together very soon.

Jackie

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**From:** Solomon, Gina@EPA <Gina.Solomon@calepa.ca.gov>

**Sent:** Thursday, January 21, 2016 7:59 PM

**To:** McQueen, Jacqueline

**Cc:** Deener, Kathleen; Guiseppi-Elie, Annette; Hauchman, Fred

**Subject:** RE: Bulk tire crumb samples and facility tour

Hi Jackie,

We just got confirmation from [REDACTED] They are willing to host a group of 15-16 people, so we should be able to accommodate a maximum of 8 EPA people on that visit as well.

We're now thinking it might work best to fit both visits into one day, with the following tentative schedule:

Fly into LAX (arrive close to 9:00 am)  
Tour [redacted] from 10:00-11:00  
Drive to [redacted] (about an hour, maybe 75 minutes)  
Lunch  
Tour [redacted] from 1:30-2:30 (or 2:00-3:00)  
Fly out of Ontario at 4:00 or 5:00

Can you float that by people at your end and see if that might work, and how many you might have?  
Best wishes  
-Gina

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**From:** McQueen, Jacqueline [<mailto:McQueen.Jacqueline@epa.gov>]  
**Sent:** Thursday, January 21, 2016 11:09 AM  
**To:** Solomon, Gina@EPA  
**Cc:** Deener, Kathleen; Guiseppi-Elie, Annette; Hauchman, Fred  
**Subject:** RE: Bulk tire crumb samples and facility tour

Thank you, Gina.

We look forward to hearing back from you on the number of people who can tour the 2<sup>nd</sup> facility. Once we know that and confirm that the 2<sup>nd</sup> tour will be the following day, we can figure out the full list of people who will attend.

Jackie

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**From:** Solomon, Gina@EPA [<mailto:Gina.Solomon@calepa.ca.gov>]  
**Sent:** Thursday, January 21, 2016 1:50 PM  
**To:** Hauchman, Fred <[hauchman.fred@epa.gov](mailto:hauchman.fred@epa.gov)>  
**Cc:** Deener, Kathleen <[Deener.Kathleen@epa.gov](mailto:Deener.Kathleen@epa.gov)>; McQueen, Jacqueline <[McQueen.Jacqueline@epa.gov](mailto:McQueen.Jacqueline@epa.gov)>; Guiseppi-Elie, Annette <[Guiseppi-Elie.Annette@epa.gov](mailto:Guiseppi-Elie.Annette@epa.gov)>  
**Subject:** RE: Bulk tire crumb samples and facility tour

Hi Fred,

I checked with our folks. The maximum we could accommodate on the [redacted] tour would be 8 people from US EPA. We're still waiting to hear from [redacted] for confirmation, and we should then know more about how many people could go there.

The [redacted] tour will be on the afternoon of Feb 9<sup>th</sup>, so it appears that if we get to go to [redacted] it will be the next day. Since the [redacted] tour is in the afternoon, it might be possible for the US EPA folks to take an early flight out that morning and still get there in time for the tour.

On a different issue, we have determined that a pint-sized glass bottle will hold almost exactly 8 ounces of crumb rubber. So we will be using that to calculate the number of samples to collect. I'm looping in Annette so she knows that for lab purposes.

Best wishes  
-Gina

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**From:** Hauchman, Fred [<mailto:hauchman.fred@epa.gov>]  
**Sent:** Wednesday, January 20, 2016 5:30 PM  
**To:** Solomon, Gina@EPA  
**Cc:** Zeise, Lauren@OEHHA; Marty, Melanie@OEHHA; Deener, Kathleen; McQueen, Jacqueline  
**Subject:** Re: Bulk tire crumb samples and facility tour

Sounds great, Gina. I suspect our folks will be interested in both types of samples. Will let you know.

You indicated that the facilities are willing to host up to about 15 people. Do you have an idea of how many openings there may be for us?

Fred

Sent from my iPhone

On Jan 20, 2016, at 6:17 PM, Solomon, Gina@EPA <[Gina.Solomon@calepa.ca.gov](mailto:Gina.Solomon@calepa.ca.gov)> wrote:

Hi Fred,

Thanks for checking in!

We are arranging visits to two facilities for Feb 9th, with a possible spillover to Feb 10th as follows:

**Ex. 3 [CERCLA section 104(e)(7)(42 USC 9604(e)(7))]**

The facilities are not all that close to each other, so it might be difficult to do both in one day. We plan to collect samples from both.

Several of us, including Lauren, Melanie, and me, will visit [REDACTED] only. Other OEHHA staff will go to both (if [REDACTED] OKs our visit) to collect samples. We are also checking if there will be any field installation in the [REDACTED] area during those 2 days, since it would be ideal to also observe (and sample) an installation. That would be weather-dependent, of course.

You can decide if you want samples from both facilities to address some of the variability in crumb rubber (e.g. size and size distribution), and if you want to visit one or both.

Also, we were just informed by [REDACTED] that both [REDACTED] **Ex. 3 [CERCLA section 104(e)(7)(42 USC 9604(e)(7))]**

**Ex. 3 [CERCLA section 104(e)(7)(42 USC 9604(e)(7))]**

**Ex. 3 [CERCLA section 104(e)(7)(42 USC 9604(e)(7))]** Some turf installation companies choose to use one kind, while others use both. We are not sure if there is any difference in the physical and chemical properties of the crumb rubber generated under these different processes. OEHHA is planning to collect both types of sample, just in case. We expect you may be interested in sampling both as well.

We'll work with Jackie as we confirm the second facility, and she can send us a head count for one or both visits.

This should be interesting!

-Gina

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[gina.solomon@calepa.ca.gov](mailto:gina.solomon@calepa.ca.gov)

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**From:** Hauchman, Fred [[hauchman.fred@epa.gov](mailto:hauchman.fred@epa.gov)]

**Sent:** Wednesday, January 20, 2016 11:55 AM

**To:** Solomon, Gina@EPA

**Cc:** Zeise, Lauren@OEHHA; Marty, Melanie@OEHHA; Orme-Zavaleta, Jennifer; Guiseppi-Elie, Annette; Deener, Kathleen; McQueen, Jacqueline; Burke, Thomas

**Subject:** RE: Bulk tire crumb samples and facility tour  
Gina,

Thanks again for the offer to join your team for the facility tour. I spoke recently with Melanie, who indicated that the best date for all of you is probably February 9 or 10. If you have a preference at this point, please let us know. This will help us gauge who will be able to join you. My rough guess at this point is that our number would be between two and six.

Best,  
Fred

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Fred S. Hauchman, Ph.D.  
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[hauchman.fred@epa.gov](mailto:hauchman.fred@epa.gov)

.....  
**From:** Solomon, Gina@EPA [<mailto:Gina.Solomon@calepa.ca.gov>]  
**Sent:** Wednesday, January 06, 2016 4:47 PM  
**To:** Burke, Thomas <[Burke.Thomas@epa.gov](mailto:Burke.Thomas@epa.gov)>; Hauchman, Fred <[hauchman.fred@epa.gov](mailto:hauchman.fred@epa.gov)>; Orme-Zavaleta, Jennifer <[Orme-Zavaleta.Jennifer@epa.gov](mailto:Orme-Zavaleta.Jennifer@epa.gov)>; Guiseppi-Elie, Annette <[Guiseppi-Elie.Annette@epa.gov](mailto:Guiseppi-Elie.Annette@epa.gov)>; Deener, Kathleen <[Deener.Kathleen@epa.gov](mailto:Deener.Kathleen@epa.gov)>  
**Cc:** Zeise, Lauren@OEHHA <[Lauren.Zeise@oehha.ca.gov](mailto:Lauren.Zeise@oehha.ca.gov)>; Marty, Melanie@OEHHA <[Melanie.Marty@oehha.ca.gov](mailto:Melanie.Marty@oehha.ca.gov)>  
**Subject:** RE: Bulk tire crumb samples and facility tour

Hi all,  
Happy new year!

We are looking at scheduling a tour of two large crumb rubber production facilities, one in Ex. 3 [CERCLA section 104(e)(7)(42 USC 9604(e)(7))] on February 9, 10, 11, or 12. The two tours could be done in one day.

Both facilities are happy to host up to a total of about 15 people.

Please let me know if people from US EPA would be interested in joining us and if any of those dates could work for you.

We will be trying to collect bulk samples prior to the tour, in the next couple of weeks, due to the tight timeline.

Best wishes  
-Gina

----- Original message -----

From: "Burke, Thomas" <[Burke.Thomas@epa.gov](mailto:Burke.Thomas@epa.gov)>  
Date: 12/23/2015 12:31 PM (GMT-08:00)

To: "Solomon, Gina@EPA" <Gina.Solomon@calepa.ca.gov>, "Hauchman, Fred" <hauchman.fred@epa.gov>, "Orme-Zavaleta, Jennifer" <Orme-Zavaleta.Jennifer@epa.gov>, "Guiseppe-Elie, Annette" <Guiseppe-Elie.Annette@epa.gov>, "Deener, Kathleen" <Deener.Kathleen@epa.gov>  
Cc: "Zeise, Lauren@OEHHA" <Lauren.Zeise@oehha.ca.gov>, "Marty, Melanie@OEHHA" <Melanie.Marty@oehha.ca.gov>

Subject: RE: Bulk tire crumb samples and facility tour

Thanks Gina, this is great.

Happy New Year too!

Tom

Thomas A. Burke, PhD, MPH  
Deputy Assistant Administrator, ORD  
EPA Science Advisor  
1300 Pennsylvania Avenue NW  
Washington, DC 20004  
202-564-6620

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**From:** Solomon, Gina@EPA [<mailto:Gina.Solomon@calepa.ca.gov>]

**Sent:** Wednesday, December 23, 2015 3:05 PM

**To:** Burke, Thomas; Hauchman, Fred; Orme-Zavaleta, Jennifer; Guiseppe-Elie, Annette; Deener, Kathleen

**Cc:** Zeise, Lauren@OEHHA; Marty, Melanie@OEHHA

**Subject:** Bulk tire crumb samples and facility tour

Hi all,

Thanks for the very informative call. It is helpful to be in communication, and I think there are several points of synergy that we identified yesterday. We're looking forward to working with you on this project. We have verified that we are able to obtain samples of fresh bulk turf and/or tire crumb in any quantity up to 10 lbs if we give 48 hours notice to a major manufacturer in Southern California. That same facility is willing to offer us a tour of their manufacturing operation, and we are planning to schedule that in January.

We are also working to develop a protocol for collecting freshly-manufactured material, so we will be prepared to collect some samples when we visit in January as well. They would be willing to provide multiple samples over time in order to help define the range of variability. For example, they would be willing to have us sample hourly over a single shift, or to have us sample daily over the course of a week. It would be very helpful to work with the U.S. EPA analytic chemists to help develop a protocol for collecting these samples. We would be happy to collect samples in triplicate (for OEHHA, US EPA, and NTP). We have some questions about appropriate sample containers (especially since the bulk samples might be fairly large).

We will work with Annette and her team on the protocol and sample containers, and we will keep all of you informed as we make the arrangements for the site visit to the facility.

Best wishes for the holiday!

-Gina

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